

SANSUI SC3000

FRONT-LOADING STEREO CASSETTE DECK WITH DOLBY



*© beim Hersteller
Archiv Michael-Otto*

Sansui was *not* the first to introduce the front-loading format which appeared in stereo cassette decks a season or so ago. And for a very good reason: we felt that its obvious advantages were too often offset by poor tape transport stability and reduced tape-handling convenience.

Our engineers kept both these points in mind as they created the prototype of the front-loading SC-3000. The results

prove that the wait was worth it. Thanks to the use of a superior tape-transport mechanism, our all-new SC-3000 has a very high signal-to-noise ratio (50dB with Dolby off) and low wow/flutter (0.09%). And because its front-access tape compartment is positioned right-side-up (unlike some other front-loading decks) you can easily read tape labels and observe tape movement for improved

tape-handling convenience.

Numerous other features—like the built-in Dolby, full auto-stop, memory rewind, selectable tape, separate output level control, LED peak-level indicator and others—make the SC-3000 a very attractive deck for its price. From Sansui, where it's *all* hi-fi.

Dolby is a trademark of Dolby Laboratories, Inc.

Sansui

SANSUI'S ALL-NEW FRONT-LOADING STEREO CASSETTE DECK

FRONT-LOADING CONVENIENCE

The front-loading design of the SC-3000 lets you stack it under or over other components in your stereo system, saving space and increasing convenience. Since the tape compartment is arranged right-side-up, cassettes are inserted and locked in place with their slotted edges down (i.e. in "normal" position) so you may read their labels and observe tape motion without confusion. A built-in light lets you see the tape even in a darkened room.

REMOVABLE COMPARTMENT LID

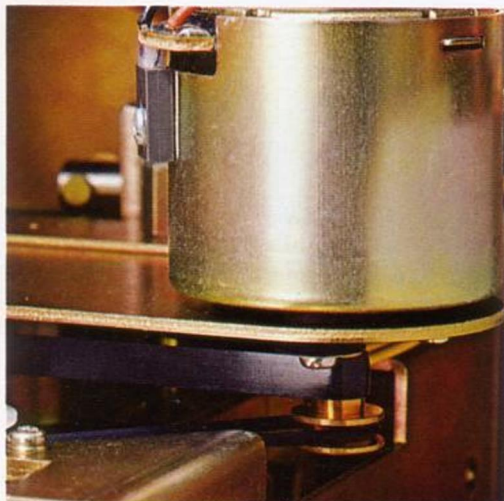
The sturdy metal and plastic lid on the tape compartment can easily be removed, giving you plenty of room for head maintenance.

SPECIAL CASSETTE HOLDER

Sansui has designed a special device (Pat. Pend.) to hold the cassette snugly in its vertical position and to prevent them from being inserted upside down.

ELECTRONICALLY CONTROLLED DC MOTOR

This highly dependable DC motor features high torque performance and long life. It is governed by a special electronic system for constant speed regulation regardless of changes in voltage supply or tape loads.



INDEPENDENT CAPSTAN DRIVE

Sansui's special design separates the capstan drive from the reel drive systems. The former has a high-inertia flywheel (photo) to keep capstan rotation smooth and even. The system also prevents capstan torque from building up to affect tape speed when power loads vary. A very low wow/flutter performance

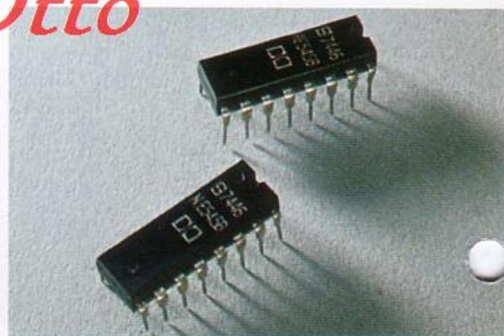


IC EQUIPPED DOLBY CIRCUIT

Because the Dolby (Type B) noise reduction circuit in the SC-3000 is constructed around an IC (integrated circuit) you never need to adjust it. (For more about Dolby, please see page 4.)



*@ beim Hersteller
Archiv Michael-Otto*



RESETTABLE 3-DIGIT TAPE COUNTER

Extra strong and easy to read, this accurate tape counter operates with or without the Memory Rewind system to aid tape indexing.

DIRECT-CHANGE MODE LEVERS

A fail-safe mechanism inside makes it possible to go from any mode to any other (i.e. REWIND to PLAY, PLAY to FAST-FORWARD, etc.) without going through STOP.

FULL AUTOMATIC STOP AND SHUT-OFF

An electronic magnet/reed switch mechanism senses tape motion and immediately disengages the drive motor and returns all operating levers to the STOP position when your tape reaches either end.



dynamic range, and accept up to +40dB peak level inputs without overloading.

RESPONSIVE VU METERS

The large and well-damped VU-type level meters on the SC-3000 are driven by an exclusive 2-transistor amplifier and show input and output levels accurately in the range of -20dB to +3dB.

LED PEAK-LEVEL INDICATOR

This LED (Light-Emitting Diode) flashes red to indicate (more quickly than any VU made) when any pulsive input signal over +6dB enters the recording amplifier. By adjusting input levels so that this indicator flashes only occasionally you can make recordings with no trace of overloading or clipping distortion.

LED MODE INDICATORS

Positioned above the peak-level LED are two other LED indicators: (1) to show when your deck is in the recording mode (light is red) and (2) when the Dolby noise reduction system is on-line (light is green).

SUPER-HARD PERMALLOY RECORD/PLAY HEAD

Sansui uses this special recording/playback head of super-hard permalloy material because it resists wear longer (up to ten times longer, in fact) than conventional permalloy types yet retains the permalloy advantages of low distortion and high musical performance quality.

DIN SOCKET

A standard DIN socket in addition to the usual pin-type jackplugs is provided for simplified connections.

OUTPUT LEVEL CONTROL

Fine adjustments of the output level (volume) of the SC-3000 are made easy with this front-panel control. It is particularly convenient when making dubs (copies) of cassettes to another deck, or when playing tapes recorded with too-low or too-high levels.

MEMORY REWIND CONVENIENCE

This switch engages the Memory Rewind function: simply push the reset button on the 3-digit tape counter so that it reads "000," then play or record your tape from that point. When the tape reaches its end, or when you decide to re-play or re-record, push the rewind lever; the tape will return to the "999" mark on the counter and you are ready to begin anew.

SELECTABLE EQUALIZATION FOR NORMAL/CHROME

The equalizer amplifier in the SC-3000 is built around a 2-stage NF (negative feedback) circuit for stable and distortion-free performance. The "TAPE SELECTOR" switch on the front panel can be moved to the "CHROMIUM" position to switch the equalizer's values to the new time constant of 3180/70μs to take advantage of chromium dioxide tapes. Distortion is further reduced and dynamic range extended.

INDEPENDENT LEFT/RIGHT RECORDING LEVEL CONTROLS

These separate, rotary-type level controls give you the freedom and flexibility demanded by professional audio engineers. They control both the Line and Microphone input circuits (although no mixing is possible).

WIDE DYNAMIC RANGE MIC CIRCUITS

The two (left/right) microphone input jacks on the front panel connect to two mic amplifier circuits using two low-noise transistors each. These circuits feature a high signal-to-noise ratio and wide

RECOMMENDED TAPE SELECTOR SWITCH POSITION ACCORDING TO BRAND AND TYPE

BRAND	POSITION	NORMAL (LH)	CHROMIUM	NORMAL (LH) for Recording CHROMIUM for Playback
AGFA		C-60, C-90 SUPER C-60 +6 SUPER C-90 +6	CHROMDIOXIDE C-60 CHROMDIOXIDE C-90	
BASF		C-60, C-90 (LH) C-60, C-90 (LN)	CHROMDIOXIDE C-60 CHROMDIOXIDE C-90	
FUJI		C-60, C-90 (FL) C-60, C-90 (FX)	C-60 (FC) C-90 (FC)	
MAXELL		C-60, C-90 (LN) C-60, C-90 (UD) C-60, C-90 (UD-XL)	CHROME DIOXIDE C-60 (CR) CHROME DIOXIDE C-90 (CR)	
MEMOREX		C-60 C-90	CHROMIUM DIOXIDE C-60 CHROMIUM DIOXIDE C-90	
SCOTCH		C-60, C-90 (LD) C-60, C-90 (LH)		CLASSIC C-60 CLASSIC C-90
SONY		C-60, C-90 (LOW NOISE) C-60, C-90 (HF)	C-60 CR C-90 CR	DUAD C-60 DUAD C-90
TDK		DC-60, DC-90 C-60, C-90 (SD) C-60, C-90 (ED)	KR C-60 KR C-90 SA C-60 SA C-90	

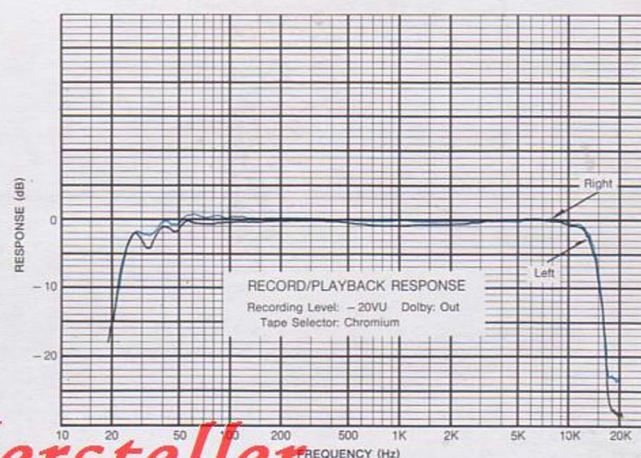
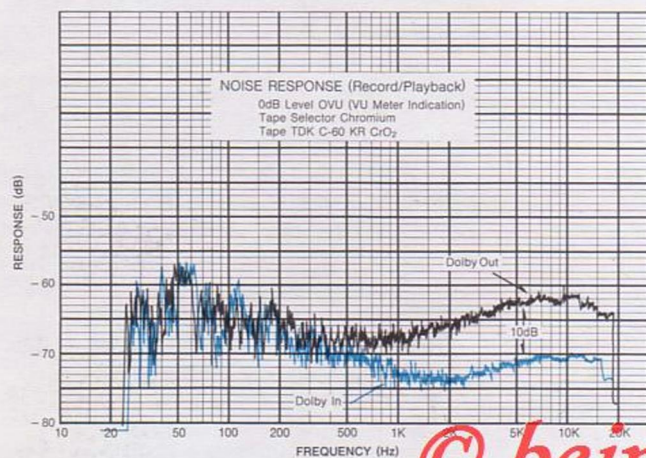
DOLBY ENDS UNWANTED TAPE NOISE— YOUR EARS WILL SENSE THE DIFFERENCE

In addition to its superior tape drive system and high quality electronics which reduce wow and flutter and improve overall signal-to-noise, the Sansui SC-3000 features a dependable Dolby (Type-B)* Noise Reduction System

formed around an IC. With the Dolby circuit engaged (by means of a front-panel switch), recordings can be made from any source which, on playback, exhibit a drastically reduced tape hiss and noise content. The reduction of such

unwanted noise is, in fact, about 10dB—a difference you can easily hear—and it works for quieter, clearer response on all types of cassette tapes.

*Dolby is a trademark of Dolby Laboratories, Inc.



© beim Hersteller

SPECIFICATIONS

TRACK	4 Track (2-Channel) Record/Playback
TAPE SPEED	4.8cm/sec. (1½ips)
HEADS	REC/PB Head (Hard Permalloy) Erase Head (Ferrite) Electronically Controlled DC Motor within 0.09% (WRMS)
MOTOR	Electronically Controlled DC Motor within 0.09% (WRMS)
WOW & FLUTTER	within ±2%
TAPE SPEED ACCURACY	Approximately 75 seconds (C-60)
FREQUENCY RESPONSE (RECORD/PLAYBACK) NORMAL TAPE (LH)	30 to 13,000Hz 35 to 11,000Hz ±3dB
CHROMIUM TAPE	30 to 16,000Hz 35 to 13,000Hz ±3dB
SIGNAL TO NOISE RATIO (RECORD/PLAYBACK) CHROMIUM	without DOLBY Better than 50dB (Weighted)
DOLBY NOISE REDUCTION EFFECT	Better than 10dB (Above 5kHz)
TOTAL HARMONIC DISTORTION (RECORD/PLAYBACK)	within 2% at 1kHz 0VU

CHANNEL SEPARATION	Better than 27dB at 1kHz
ERASURE FACTOR	More than 60dB (1kHz)
INPUT SENSITIVITY AND IMPEDANCE (0VU, 1kHz) MIC (LEFT, RIGHT)	0.5mV 600ohms— 10 kohms 70mV 100 kohms 14mV 90 kohms
LINE DIN	300mV (output control max. imp. 100 kohms) 300mV (output control max. imp. 100 kohms)
OUTPUT LEVEL (0VU, 1kHz=160pwb/mm) LINE	0.1mW/8 ohms 85kHz
PHONES BIAS FREQUENCY CONTROLS	0.1mW/8 ohms 85kHz
MIC/LINE (LEFT, RIGHT)	Single Knob Type Single Knob Type (Double continuously adjustable)
OUTPUT	Single Knob Type Single Knob Type (Double continuously adjustable)
SWITCHES & CONTROLS	RECORD, REWIND, PLAY, FAST FORWARD, PAUSE, STOP/EJECT
TAPE SELECTOR	NORMAL (LH), CHROMIUM OUT, IN
DOLBY NR	

MEMORY POWER	ON, OFF ON, OFF
INPUT/OUTPUT JACKS MIC (LEFT, RIGHT)	Phone Type
LINE (INPUT, OUTPUT)	RCA Pin Type
REC/PB (DIN) INDICATORS	DIN Socket RECORD DOLBY NR PEAK LEVEL
OTHER FEATURES	MEMORY TAPE COUNTER FULL AUTOMATIC STOP
POWER REQUIREMENTS VOLTAGE	100, 120, 220, 240V (50/60Hz)
CONSUMPTION	10 Watts (Rated)
SEMICONDUCTORS	18 Diodes, 3 LED's
DIMENSIONS	440mm (17½") W 290mm (11½") D 158mm (6¼") H
WEIGHT	8kg (17.6 lbs) Net 10kg (22.0 lbs) Packed

Design and specifications subject to change without notice for improvements.